

AEROSPACE *Frontiers*

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Glenn welcomes Administrator

NASA Administrator Mike Griffin believes that the Agency he leads must always remain on the cutting edge.

NASA research centers exist to create tomorrow's technology and design the vehicles that will take the Nation to new destinations on continual exploration missions. On May 16, Griffin caught a glimpse of this philosophy in action while visiting Glenn.

Griffin held a Town Hall meeting with Center employees where he restated his commitment to executing the Vision for Space Exploration and explained how Glenn can best contribute to that goal.

The Center's expertise, he said, would be useful in designing efficient power systems for the Crew Exploration Vehicle (CEV), in-space propulsion, and nuclear propulsion systems.

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C-2005-699



C-2005-701

Photos by Marvin Smith

Left: Deputy Director Rich Christiansen introduces Griffin at the Town Hall meeting. Above: Dawn Emerson, Avionics, Power and Communications Branch chief, shows Griffin a model of a pollution-free aircraft engine concept.

Dr. Earls presents 2005 State of the Center

Center Director Dr. Julian Earls presented his 2005 State of the Center address on April 20, focusing on the fiscal year 2006 (FY06) budget request, its possible effects on the Center, and ways to reduce its impact. The address opened with a video that highlighted Glenn's facilities, competencies, and personnel.

Following the video, Earls, with his usual candor, went on to lay out the current budget challenges and actions being taken to mitigate the impact. "To become competitive in FY07 and beyond," said Earls, "we must find ways to balance our capacity to meet demand."

He noted three actions that are being taken to stabilize the Center and increase funding:

- Form partnerships to increase roles in other NASA work by teaming with other NASA centers to support intramural tasks, and with industry and academia to support extramural tasks
- Pursue strategic partnerships from outside NASA by seeking reimbursable funding from other Federal Government agencies and non-Federally funded research and development from industry or state and local governments
- Seek enhanced, use-lease authority to lease our facilities to other Government agencies or the private sector

"We will continue to compete and win more NASA competitions," Earls added.

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Earls made several references to Plum Brook Station and the efforts that are being made to maintain the complex through various funding efforts.

He stressed Plum Brook's value not only to Glenn but also to the entire Agency, especially in the pursuit of Exploration goals. He called for a commitment from NASA to support this vital facility.

Video clips from a recent Ohio Delegation breakfast meeting capped the State of the Center address. During the breakfast, members of the delegation, along with 200 business leaders in the state, met to rally support for Glenn's budget, especially in aerospace programs.

A question and answer session followed, covering such issues as the new NASA Administrator, building 500 and 501 demolition and reconstruction, and further discussion on buyouts.



Photo by Quentin Schwinn

C-2005-697

Dr. Earls presented his 2005 State of the Center Address on April 20.

Earls encouraged employees to continue to support cultural change initiatives within the Agency and Glenn. He cited avenues such as the "Can We Talk" sessions as opportunities for employees to honestly voice their concerns and receive feedback from the Director and Deputy Director.

In conclusion, he stressed the importance of employees giving their best as they work through this time of transition. "It is all right and acceptable to fail," he said, "but it is unacceptable to give up."

More detailed information on the 2005 Year In Review is available in the *Today@Glenn* archives. ♦

Employees named Space Flight Awareness honorees

Four Glenn employees were recently recognized for their Return to Flight (RTF) contributions at a unique Space Flight Awareness event held in conjunction with the Integrated Space Operations Summit. The summit focused on the reports of working groups on subjects such as space shuttle mission execution, shuttle transition, International Space Station operations, lessons learned from 44 years of human space flight, and input from industry partners.

Acting Administrator Frederick D. Gregory presented the keynote address. Glenn's Deputy Director Rich Christiansen represented Glenn management at the SFA event and Angel Otero, chief, Space Operations Division, participated in the summit. The Glenn Space Flight Awareness honorees are:

Dr. Anthony Calomino, Life Prediction Branch. Calomino achieved a Space



Dr. Calomino



Dr. Jacobson



Dr. Tenteris-Noebe



Williams

Flight Awareness award for contributions to a team tasked with characterizing the high-temperature behavior of Reinforced Carbon-Carbon (RCC) used for the orbiter's leading edges. Calomino is an expert in high-temperature composite structures. He served as a lead engineer on this RTF activity, recommended by the Columbia Accident Investigation Board, studying the effects of mission exposure on RCC microstructure, strength, and nondestructive evaluation detection to gain a deeper understanding of material performance.

Dr. Nathan Jacobson, Durability and Protective Coatings Branch. Jacobson has been involved with NASA Johnson's leading-edge subsystems group since the mid 1990s, conducting high-temperature chemistry and thermodynamic studies contributing to the understanding of RCC behavior and providing solutions to RCC leading-edge materials issues.

Dr. Anita Tenteris-Noebe, SAIC/Quality Management Office. Tenteris-Noebe

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Glenn experiments bound for space station

Two significant Glenn experiments developed within the Exploration Systems Division—the Fluids Integration Rack (FIR) and the Dust Aerosol Measurement Feasibility Test (DAFT)—are scheduled to fly onboard the International Space Station (ISS). Both pieces of hardware will play an important role in conducting experiments that will improve space exploration and astronaut safety.

The FIR, part of the two-rack Fluids and Combustion Facility, enables a wide variety of advanced life support fluids-related technology experiments aboard the ISS. The team supporting the FIR recently completed their last major rack level test—the Mission Sequence Test (MST). The MST, which involved 3 weeks of preparation and 2 days of testing, simulated on-orbit conditions, and validated that all systems work together to meet critical user performance requirements.

"The MST test ran flawlessly—the team really pulled together and gave it their all to get the job done," said Project Manager Frank Gati, Mission Operations and Integration Projects Office. With the MST completed, the team is now preparing for final safety reviews at Johnson. Following the safety and pre-ship reviews, the FIR will be sent to Kennedy in August. It is expected to launch in May 2007 on shuttle flight ULF-2.

Glenn's Life Support and Habitation Projects Office initiated DAFT in 2003 as a risk-mitigation experiment in support of the Smoke Aerosol Measurement Experiment (SAME). DAFT consists of three commercially developed pieces of hardware and a collection of additional materials used to help take air quality measurements in a microgravity environment.

Commenting on DAFT's success, Project Manager Bill Sheredy said, "Through our expertise at Glenn, we can take commercial technologies and make them viable in microgravity." He added, "Taking a project from a concept to flight readiness in less than a year is both a challenge and a reward."

Due to the heavy weight of the hardware, only two parts of DAFT were sent to ISS in December 2004. The remainder of the experiments were delivered to Kennedy in March and are expected to arrive to ISS by September aboard shuttle flight STS-121/ULF-1.1.

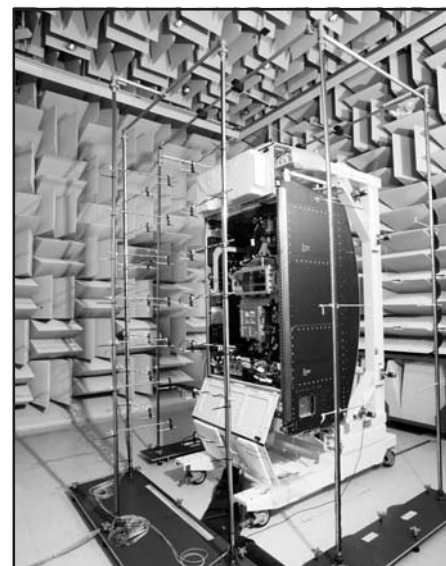
FIR and DAFT's continued success will directly benefit the ISS crew and enable Glenn to make a noteworthy contri-

bution to the fulfillment of NASA's Vision for Space Exploration. ♦

This article was written by Emily Groh, ANLX/Exploration Systems Division.



Above: Astronaut Leroy Chiao gives a thumbs-up to indicate that part of DAFT has successfully been placed in its aerosol monitoring state on the ISS. Right: FIR, part of the two-rack Fluids and Combustion Facility.



C-2005-139

Expedition 11 readies welcome mat for shuttle's return

With transfer of duties and housekeeping completed, the International Space Station (ISS) Expedition 11 crew is developing plans for two space walks, one in August and one in September. Russian Commander Sergei Krikalev and NASA Flight Engineer and Science Officer John Phillips will outfit the ISS with new external experiment hardware, install additional camera gear, and relocate and recover Russian science equipment on the Zvezda Service Module.

A highlight to Krikalev and Phillips' 180-day mission includes 8 days of joint-docked operations with the STS-114 crew, including resupplying of the ISS with several tons of food and equipment and taking three spacewalks out of the shuttle's airlock by *Discovery* astronauts Soichi Noguchi and Steve Robinson. After a visit with the STS-114 crew, Expedition 11 will host the Shuttle *Atlantis* STS-121 crew, led by Commander Steve Lindsey.



Krikalev and Phillips

Much of the research activities for Expedition 11 will be carried out with scientific

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News and Events

Past, Present, Future

With support from NASA Johnson and Marshall in association with CAFARO, Inc., Glenn has created an exhibit reflecting NASA's space exploration from Apollo to the current Vision for Space Exploration. Entitled "Space Exploration Experience: Past, Present, and Future," the exhibit is on display at the Eastwood Mall in Niles, OH, through July 10. During the April 29 grand opening activities, legislative personnel, school groups, and the general public enjoyed the exhibit, as well as the "unveiling" of the Lunar sample (moon rock). Special events are scheduled around the exhibits, including Space Day; school group tours; a "space theater" featuring NASA videos; speakers from the Glenn Speakers Bureau; and an appearance by retired astronaut Walt Shirra, the only astronaut to have flown Mercury, Gemini, and Apollo.

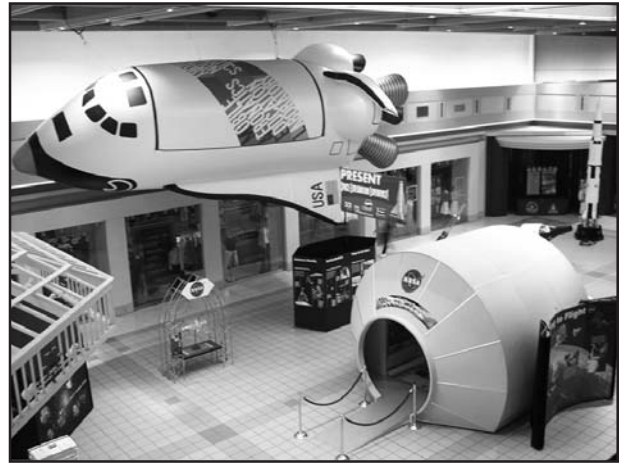


Photo by NASA Glenn Exhibits Department



Photo by Marvin Smith

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Creating the future

Deputy Director Rich Christiansen stressed the importance of strategizing to "win the present and create the future" during a Partnership and New Business Forum held at Glenn on April 28. The first of a series of forums aimed at opening avenues to capture new business, the event featured a panel of Glenn senior managers who answered questions ranging from leadership commitment to strategic business development. Later that day, employees worked in small, cross-organizational teams to address concerns in more depth and report recommendations to senior management. Recommended actions can be found at http://newbiz.grc.nasa.gov/attach/forum_actions.pdf. Pictured is Natalie Pastorin, Organization Development and Training Office, recording information during the group discussion portion of the forum.

Photo by Eli Abumeri

Protect our planet

On April 21 and 22, Glenn employees banded together to not only protect the Earth for future generations, but also to provide cleaner air, land, and water right now. Here are few examples:

- Over 400 employees picked up tire pressure gauges, which potentially can improve a vehicle's gas mileage and reduce tire wear and tear.
- Over 100 attendees purchased compact fluorescent light bulbs, which potentially can reduce power plant emissions of mercury and sulfur dioxide by 75 to 80 percent
- Fifteen employees helped reduce auto emissions of carbon monoxide by about 6 pounds by choosing to "bike-to-work"
- Over 50 employees saw how to collect rainwater for home use, which reduces the water treatment chemicals necessary when using tap water
- Employees encouraged local car dealers to order more hybrids by viewing and discussing vehicles on display
- Many employees purchased coffee that helped Third-World farmers protect the rainforests
- Children from Lewis Little Folks child development center learned good stewardship from Foster Brown's songs, received Earth kits from the Lake Erie Nature and Science Center, and participated in a coloring contest
- Glenn cosponsored 35 exhibits at Youngstown State University and a joint proclamation by State and federal groups, and made presentations to hundreds of students

To learn about the many more events and displays, visit <http://earthday.grc.nasa.gov/>.



Employees learned that conservation can take many forms through environmental displays set up in the Main Cafeteria.



Ask the Director

The following question was chosen by the Director as a sampling from the *Ask the Director* Web site.

Q. Given that the Space Exploration Initiative is NASA's top priority, what is the rationale behind the proposed closing of the facilities at Plum Brook Station? These facilities and their capabilities are well suited to provide testing that will be needed for the new space exploration initiative. These facilities could be leveraged into bringing more of the exploration work into the Center. Closing the facilities seems to be placing Glenn at further disadvantage in participating in the new initiative. Any feedback on the rationale behind this proposed facility closure would be greatly appreciated.

A. Historically, the Plum Brook (PB) facilities have been funded through a combination of reimbursable test programs and Glenn Center G&A funding. With the recent reduction in programmatic content at Glenn and the associated reduction in G&A funding, Glenn is no longer in a position to sustain funding for PB, which has prompted the actions to study and consider the closure of PB. There is no doubt that the capabilities of the PB facilities appear to be well aligned with the testing needs of the Exploration Systems Program. At this point in time, the Exploration Systems Mission Directorate has not yet developed their requirements to a level of maturity sufficient to enable decisions on which Agency testing assets will be required and which will not. Under "full-cost," the programs and projects are responsible for providing the funding for all aspects of a program and/or project, including test facilities. However, there is

no Agency policy for who is responsible for providing sustainment funding for facilities that have a high potential for being used, but for which no requirements have been clearly identified. Having identified this critical gap in funding, we have been working together with the Agency AA for Institutions and Management, Jim Jennings, the Exploration Systems Mission Directorate, the Space Operations Missions Directorate, and the Science Mission Directorate, to identify a process and source for test facility funding. ♦

News Notes

LESA MEETING: LESA/IFPTE, Local 28, will hold its next monthly membership meeting on Wednesday, June 8, at noon in the Employee Center.

FREE FAMILY FUN: On Saturday, June 18, Glenn's Visitor Center will present "Stardust: Comets, Asteroids and Meteors." Learn about these little-known members of the solar system and the missions launched to investigate them. Missions such as Stardust, Deep Impact, and Dawn will be discussed. Presentations will be held at 11 a.m. and 1 p.m. Free photos will be available at the "Picture Yourself in Space" digital photo booth, "Make and Take" craft activities for kids, and plenty of handouts. For more information and reservations, call 216-433-9653 or visit <http://visit.grc.nasa.gov>.

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News and Events

National Library Week

Glenn's Technical Library celebrated National Library Week on April 13 with an open house featuring three vendors, a speaker, two new RSS news products, and raffles. Over 100 employees attended, including Center Director Dr. Julian Earls, Deputy Director Rich Christiansen, and other senior staff. The first "Lunch and Learn" speaker, Bruce Banks, chief, Electro-Physics Branch, presented "Earthly Applications of Space Atomic Oxygen," to a standing-room-only crowd. They

were rewarded with an informative presentation relating atomic oxygen's use in art restoration, document forgery detection, and artificial implants. Vendors included the NASA Center for Aerospace Information (CASI), Institute for Electrical and Electronics Engineers, and Thomson/ISI. Vendors demonstrated their products, showing how they can benefit new business initiatives for Glenn. Pictured (seated) Kurt McIntyre, NASA CASI, demonstrates the robust searching ability of the NASA Aeronautics and Space Database to Deputy Director Christiansen.



Photo by Doreen Zudell

New public tours

Glenn has launched a new tour program that allows the general public an up-close look at some of the Center's world-class facilities. The free, 1-hour tours will be offered throughout spring and summer on the first Saturday of the month. Visitors should call 216-433-9653 to register. Tours are limited to U.S. citizens. All adult visitors must present government-issued photo identification. For more information, visit <http://visit.grc.nasa.gov>.

Coleman recognized for preserving history

BY DOREEN ZUDELL

Glenn History Officer Kevin Coleman, Logistics and Technical Information Division, under the Center Operations Directorate, knows the challenges of recovering history and introducing it to the present. Under Coleman's leadership over the past 6 years, the Glenn History Program has made great strides in preserving the Center's history.

The NASA Headquarters History Division recently acknowledged these efforts by presenting Coleman with the first NASA History Award. The award recognizes a person who has excelled in the promotion of NASA history inside and outside of the Agency. These efforts should both raise awareness of history and exemplify the highest standards for professional historical work.

"Kevin has initiated, guided, and seen to completion multiple projects at Glenn related to history, encompassing books, archives, records, films, and conferences," said NASA Chief Historian Dr. Steven Dick. "He is a great asset in the continuing effort to record, analyze, and disseminate NASA's history, and shows the considerable effect one person can have on a program."

Coleman says he shares this recognition with the Glenn History Program, which includes Anne Burke, deputy history officer, and support by archivists Nora Blackman and Bob Arrighi (RSIS). In addition, Debbie Demaline and Sue Kelley, RSIS/Records Management Office, conduct the important task of retrieving and cataloging files at Plum Brook and Lewis Field. He also recognizes Galen Wilson from the National Archives and Records Administration who provided "invaluable assistance" in appraising records as historical documents that need permanent retention.

Contributing to receipt of this honor was Coleman's leadership in documenting several achievements of the Glenn family, including the publication of six books and CD/DVDs on the topics of the Centaur, Plum Brook Station's Reactor

"History never looks like history when you are living through it." — John W. Gardner

Facility, and the Rocket Engine Test Facility in 2004. Two more books and CD/DVDs, one on the Plum Brook Station Reactor Facility and the other on the Realizing the Dream of Flight Symposium, are slated for publication in 2005.

Coleman says the talent and professionalism of authors Drs. William Leary, Virginia Dawson, and Mark Bowles helped to make this award possible as well. Bowles' manuscript on the Plum Brook Station's Reactor Facility received the American Institute of Aeronautics and Astronautics 2005 History Manuscript award.

In addition to these major accomplishments, Coleman has made it a priority to establish relationships with NACA/NASA Glenn retirees whose personal files and memorabilia are often the greatest source for rediscovering the Center's past.

"The materials we've acquired from retirees, along with their help in identifying photographs and other material, have made it possible to produce these publications, as well as other projects," Coleman said. "I've never worked with a prouder group of people."



Photo by Doreen Zudell

Pictured, left to right, are Blackman, Coleman, Demaline, Burke, and Arrighi.

Two notable acquisitions include former Center Director Dr. Abe Silverstein's papers and other memorabilia, and three pickup trucks full of boxes on bearing and turbomachinery research. "I don't know who was happier about the three truckloads of boxes, our office or the retiree's wife, who was ecstatic to get the use of her basement back after so many years," Coleman said.

Later this year, Coleman hopes to get more retirees and employees involved in the Center's history archival efforts through an informal history group. A new external Web site is available at <http://GRCHistory.grc.nasa.gov>. ♦

Nothing ventured, nothing gained

Great news! Glenn employees now have an opportunity to reap financial rewards by participating in the new Gainsharing Travel Savings Program. Chief Financial Officer Bruce Ward conducted a kickoff briefing on May 2nd on the pilot program that rewards employees who save NASA money while on official travel. Gainsharing is a voluntary program, patterned after similar ones in other Federal agencies devised as an incentive for employees to reduce their travel cost. A minimum of \$50 per trip and cumulative savings of at least \$200 to NASA must be realized before an employee is eligible for an award. Employees can benefit from the new gainsharing program by acquiring less expensive lodging and fares, and applying frequent flyer benefits to official travel. Frequently asked questions about the program have been posted to Today@Glenn. Visit the Web site at <http://cfo.grc.nasa.gov/gainshare/>

Griffin gets to know Glenn

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"Nuclear energy is a core requirement in exploration," Griffin added. "I believe nuclear thermal propulsion is the most intelligent way to go to Mars. And development of these systems has been a historical core competency at Glenn."

The Administrator stated that the current timetable to develop the CEV must be accelerated. The challenge to fund the CEV, he said, will not come from further cuts in aeronautics or in science. "That leaves just one area: technology development," Griffin stated. "That means deferring some technology development (for lunar and Mars exploration) to pay for CEV."

Griffin also addressed the topic of competition among NASA centers. He called for a "competition of ideas and investigators" not mission areas from centers. He said centers that do not win the project should not be penalized; rather they are expected to contribute to the project in whatever way possible. He noted that the Department of Energy effectively uses this approach.

"Federal centers are not companies," he said. "We do the kind of cutting-edge technology that companies just can't do. If we had to make a profit, we would go out of business."

Griffin recognized that some NASA test facilities are national resources and that centers should not have to bare the financial burden of supporting those facilities alone. He said that a new Capital Asset Management Account might help in this area.

While Griffin acknowledged the variety of work being conducted throughout the centers, he stressed the need to establish priorities. "We can't do all that's on our plate," he said. "We have to eliminate tasks from the bottom [of the list]."

After the Administrator toured several of Glenn's facilities, he met with reporters for a brief press conference. Over the next 20 years, Griffin told the press, "I would like nothing more than to see [the centers doing] the kinds of things I saw today at Glenn."

In addition to a Town Hall meeting and the press conference, the day's events included lunch with employees at the Main Cafeteria. There, Griffin looked at displays of Glenn projects that have been recognized for outstanding research, engineering, and craftsmanship.

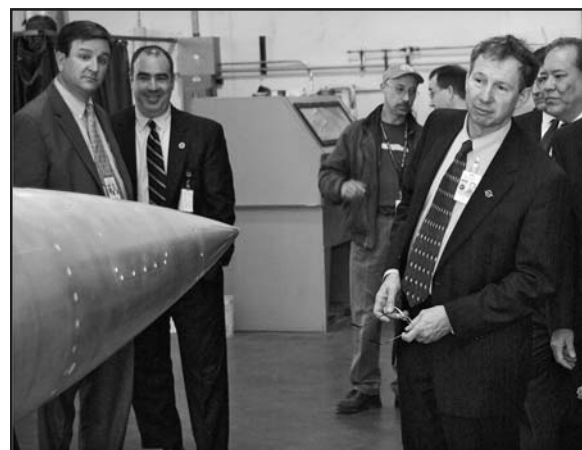
This was Griffin's first official tour of Glenn since he was confirmed by the United States Senate on April 13. Over the month of June, he will visit all of the centers. ♦



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C-2005-702



C-2005-705



C-2005-703

Pictured, top to bottom, Griffin fields a question from an employee during the Town Hall meeting with employees. William Darby, R&D Labs Technical Branch, a Craftsmans Award nominee, describes his work in antenna ranges to Griffin. The Administrator views a model in the shop area of the Abe Silverstein Supersonic Wind Tunnel. Griffin meets with local media during a press briefing.

Photos by Marvin Smith

2005 Support Assistant/Clerical Award winners

Eleven employees were recognized during the 2005 Support Assistant/Clerical Award reception held on April 2. Center Director Dr. Julian Earls joined the nominating supervisors and coworkers in congratulating the honorees and cited their importance to upholding standards that enable the Center to meet the changing and evolving demands of NASA missions. This year's award recipients include the following:

Rhonda Billick is an InDyne (now SGT) employee supporting the Office of Human Resources and Workforce Planning. Billick has worked at the Center for 20 years.

Ruth Humphreys is an InDyne (now SGT) employee supporting the Organization Development and Training Office (nominated by members of the Leadership Observation and Feedback Team). Humphreys has worked at the Center for nearly 6 years.

Sherryl Mallinak is the management support assistant for the Fluid Physics and Transport Branch. Mallinak has worked at the Center for 19 years.

Deborah Malow is the executive management support assistant for the Office of the Director. Malow has worked at the Center for nearly 32 years.

Marian Midgett is an InDyne (now SGT) employee supporting the Project Management and Quality Assurance Branch. Midgett has worked at the Center for nearly 8 years.

Cheryl Niznick is the executive support assistant for the Office of Strategic Management (nominated by the Vehicle Systems Branch) and has worked at the Center for nearly 21 years.

Desa Rakic is the management support assistant for the Aeronautics Division. Rakic has worked at the Center for 7 years.

Jacquelyn Selee is the office automation assistant for the Electric Propulsion Branch. Selee has worked at the Center for 2 years.



Civil servant awardees with Earls and Deputy Director Rich Christiansen: back row, left to right, Malow, Mallinak, front row, Niznick, Selee, and Rakic.

Photos by Marvin Smith

Support service contractor awardees with Earls and Christiansen: back row, left to right, Umlauf, Zegarac, Nancy Mansell, InDyne deputy program manager (now SGT business manager); front row, Midgett, Billick, and Humphreys.



C-2005-621

Tracy Stidham is an InDyne (now SGT) employee supporting the Thermal Energy Conversion Branch. Stidham has worked at the Center for 4 1/2 years.

Paula Umlauf is an InDyne (now SGT) employee supporting the Glenn Safety

Office. Umlauf has worked at the Center for 21 years.

Laura Zegarac is an InDyne (now SGT) employee supporting the Glenn Safety Office. Zegarac has worked at the Center for 18 years. ♦

Space Flight Awareness honorees

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supports quality assurance activities as a polymer scientist, specializing in materials and processes. This includes materials applications, testing methodologies, and evaluation and analysis techniques. She was recognized for her role in oversight of quality issues and quality control for impact testing of RCC panels in Glenn's Ballistic Impact Lab.

Glenn L. Williams, Diagnostic and Data Systems Branch. Williams assisted an

Independent Technical Assessment/Inspection team for the NASA Engineering and Safety Center in studying Space Shuttle Orbiter Reaction Jet Drivers (RJD). He provided an early critical observation that a certain type of Kapton™ wire RJD harness wiring fault event, should it ever occur, might overstress RJD transistors. Such damage could then possibly trigger a catastrophic single point failure, resulting in an accidental orbiter thruster firing and thus a major calamity. ♦

RAC celebrates 25th Anniversary

A "byte" of Glenn history

BY S. JENISE VERIS

On April 28 current and retired residents of the Research Analysis Center (RAC), gathered to celebrate the 25th anniversary of the hub of information technology (IT) at Glenn.

Center Director Dr. Julian Earls and Facilities Division Chief Dallas Lauderdale joined Chief Information Officer (CIO) Dr. Sasi Pillay in a brief presentation that proudly looked back on the past and enthusiastically ahead to the future.

Pillay thanked employees and retirees for past contributions and rallied their continued excellence to improve the Center's competitiveness and reduce operational costs.

"I am extremely proud of the IT team," Earls affirmed. "Despite budget challenges, you continue to perform at a level that has made information technology a centerpiece of NASA Glenn."

As Glenn's first CIO, Earls applauded Edward Richley, former director of Administration and Computer Services, who championed the construction of the facility.

When constructed 25 years ago, the RAC building was truly ahead of its time because of its adaptability and efficiency. Originally a two-story structure, it was designed to accommodate follow-on expansion horizontally or vertically for a third floor. A heat recovery pool was installed under the building to cool the large mainframe computers and was the source of 90 percent of heat pumped to the offices until the mainframes were transitioned offsite. In 1980, the RAC also featured an uninterrupted power supply (now commonplace in the computing industry) to ensure no data was lost during a power outage.

Lauderdale recalled how he worked on the expansion project that began in 1982. "Looking back to the project, I think that

the staff mimics the structure in that they offer a flexible approach to providing the most efficient services to the Glenn community," he said.

Shortly after the RAC building opened and four mainframes were delivered, Dr. William Ford, who became chief of the newly formed Systems Engineering

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Photo by Michelle Murphy



Photo: NASA Glenn archives

Above, left to right, Center Director Earls and CIO Pillay cut one of two cakes, this one picturing the original building, for the RAC celebration. Left, the operator's console for the IBM 370 system mainframe, state-of-the-art when installed in 1981. It was the Center's general purpose machine used throughout the 1980s.

GATE Partnership Awards announced

NASA Glenn and its partners in the Glenn Alliance for Technology Exchange (GATE), Ohio Aerospace Institute (OAI), and Battelle's Great Lakes Industrial Technology Center (GLITeC) recently announced the winners of its Partnership Award Competition.

The GATE Partnership Award Program targets small Ohio companies that are interested in enhancing their products and processes with NASA technologies. Thirty-eight proposals were submitted from all over Ohio; four were selected for awards of \$50,000 each. In addition to the cash award, another \$50,000 is available to each company to pay for NASA assistance in developing the new product or process.

The four winning proposals include: Advanced Coatings International, Akron, OH, partnering with Michael Meador, Polymer Branch, to develop an advanced water-based coating for the manufacture of printed circuit boards; Essential Research, Inc., Cleveland, OH, using NASA expertise to develop a new quantum dot photovoltaic test laboratory to better serve its customers; Catacel Corporation, Garrettsville, OH, using NASA test facilities and expertise to speed product development and testing of a spiral stackable reactor for low-cost hydrogen production; and Western DataCom Company, Inc., of Westlake, OH, partnering with Glenn's Space Communications Division to develop a secure Personal Computer Memory Card International Association (PCMCIA) card for improved Internet security.

Due to the volume and quality of proposals received in the first solicitation, GATE has solicited another round of proposals. An announcement of the awards is expected in September. ♦



Suggestion awards

Center Director Dr. Julian Earls recently visited the worksites of Suggestion Award recipients to personally congratulate them and present a Certificate of Appreciation for their contributions to the efficiency and economy of the Center. Individual monetary awards proceeded the visit. The award winners are:

Leonard Bellisario, Aviation Environments Technical Branch. For conceiving and developing a timesaving device supporting the W7 Computation Ultra-Efficiency Engine Technology tests. Bellisario machined an aluminum spacer as a temporary connection to existing tubing for easier access to a remote reservoir until a new reservoir can be installed in its permanent location.

Jennifer Budd, Organization Development and Training Office. For recommending a handy aid to communicate knowledge of emergency safety procedures. Budd suggested an abbreviated version of the emergency report process including relevant phone numbers be created and laminated to clip on with Center ID badges.

Dr. Richard DeLombard, Human Health and Performance Systems Projects Office. For identifying a scene of potential mishap for employees. DeLombard suggested paving a section of the rock-bed median between the two parking lots between and the Sharp Employee Services Center. This would include ramps for wheelchair access for ease of travel, particularly in snowy conditions.

Dr. Steven Gnepp, Computational Sciences Branch. For identifying and suggesting a corrective measure to ensure safe access to the DEB first floor men's room. Gnepp suggested appointing someone to monitor and replace burned out light bulbs that direct visitors to the restroom, and install push-button doors for patrons with disabilities.

Dr. Geoffrey Landis, Photovoltaic and Space Environment Effects Branch. For improving lines of communication between employees and the Glenn Safety Office. Landis suggested modifying the Corrective and Preventative Accident Reporting System

(CPARS) Web page to include information on how to submit a CPARS as a measure for improving issues pertaining to safety.

Dr. Janet Storti, Educational Programs Office. For improving Labwide productivity inhibited by pop-up ads on the Internet. Storti suggested that Glenn's Help Desk identify another firewall solution or switch to the Netscape protocol capable of sweeping all hard drives of Spyware across the Center.

Gary Loder, now retired from the Central Process Systems Operations Branch (with the support of coworker Donald Swedinovich). For pinpointing a source of potential mishap within the Central Process System. Loder suggested modifying the display screens in the Central Process Distributive Control System to highlight areas where inadvertent pressure mixing occurs due to improper use of crossover routing valves.

Glenn's success, as well as the entire Agency's, depends on the good judgment and resourcefulness of its employees. For more information on Glenn's Suggestion Program, visit the Web site at <http://www.grc.nasa.gov/WWW/OHR/Suggestion/>. ♦

People

Awards and Honors

The University of Illinois Alumni Association honored **Dr. Gary Halford**, senior technologist in Research and Technology Directorate, with the 2005 Constituent Leadership Award. Halford was recognized for his technical leadership and dedicated service to the University and the Theoretical and Applied Mechanics Department.



Dr. Halford



Marc Seibert was the recipient of a NASA Kennedy Gold Dollar Award for participation in the development of the communications interface for a wireless communications headset. The award was presented by Glenn's Deputy Director Richard Christiansen, left, on behalf of Kennedy Center Director James Kennedy.

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DEADLINES: News items and brief announcements for publication in the July issue must be received by noon, June 10. The deadline for the August issue is noon, July 15. Submit contributions to the editor via e-mail,

doreen.zudell@grc.nasa.gov, fax 216-433-8143, phone 216-433-5317 or 216-433-2888, or MS 3-11. Ideas for news stories are welcome but will be published as space allows. View us online at <http://AeroSpaceFrontiers.grc.nasa.gov>.



People

Promotion

Peter McCallum has been selected chief, Project Control Office within the Programs and Projects Directorate. McCallum will be responsible for integrating project and resource management functions under the full cost and earned value management environment. He brings to the position 11 years of supervisory experience including 8 as the chief of Environmental Management Office and 3 as the chief of the Aerospace Propulsion and Power Base R&T Program Office. McCallum's background in chemical engineering, law, and completion of NASA's Senior Executive Service Candidate Development Program are additional assets to fulfilling his new role and responsibilities.



McCallum

News Notes

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CHILDREN VISIT WORK: An Equal Opportunity Office advisory group committee will host this year's "Take Our Children to Work Day," on June 30. Online registration is tentatively scheduled to begin on June 21 with badge pickup on June 27 in the Main Cafeteria. Look for details on this event on *Today@Glenn*. Point of contact: Cynthia Watson, 216-433-6776.

Expedition 11

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facilities and samples already onboard the ISS, in addition to new research facilities transported by the two space shuttle missions. Glenn-supported experiments among the many that will continue to benefit from the long-term research platform provided by the ISS include Dust Aerosol Measurement Feasibility Test, Materials on the International Space Station Experiment, Space Acceleration Measurement System II, and Microgravity Acceleration Measurement System. ♦

In Memory

Vipperman known as "key man"

Lawrence Vipperman, 55, who worked as a member of Glenn's security force since 1980, died on May 3. Vipperman served as the locksmith, in charge of keys and lock combinations throughout the Center.

Affectionately known as "the key man" or "lockologist," Vipperman took a great deal of pride in his responsibility of keeping Glenn's offices secure. Despite the seriousness of his job, he enjoyed a friendly rapport with employees.

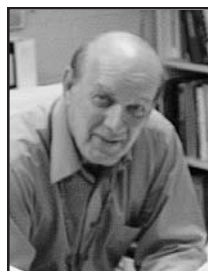
"Larry was one of the nicest people you'd ever know," said Craig Robinson, project manager for Knight Protective Services. "He was responsible for keeping track of hundreds of thousands of keys, and he did a great job of handling the task."

Vipperman received various awards and citations for his efforts. ♦



Vipperman

Pasela had a smile to last a lifetime



Pasela

Daniel Pasela, 62, a Call Henry, Inc., employee in the Systems Management and Maintenance Branch, died unexpectedly on May 5.

After serving in the U.S. Navy, Pasela worked for several companies as an electrical designer. Pasela began his NASA career in 1979 under support service contractor W.L. Tanksley & Associates and transitioned with several contractors over the past 26 years.

Pasela was known for always having a smile on his face and treating others with kindness and respect. "Dan was one of those people who remind us that every day is special," said coworker Scott Marabito, echoing the sentiments of many employees. "He often took the time to listen and provide guidance to any coworkers with personal troubles."



Bergman

Mildred Bergman, who retired in 2004 after 25 years of Federal service, died on May 11 after a 2 year battle with brain cancer. She was serving in the Customer Interface Branch of the Computer Services Division (now the Office of the Chief Information Officer) at her retirement. Bergman was very active in charity and community outreach. She will be remembered for her strong customer focus, quiet leadership, and grace.

In Appreciation

I wish to thank the Flight Software Engineering Branch for hosting a great retirement party for Dave York and me, and for all who came to wish us well. During my 41 years at Lewis/Glenn, I worked in several different disciplines and participated in many employee activities. The work was both interesting and challenging and presented opportunities to meet some of the greatest people. It's been my pleasure and privilege. Thank you for a lifetime of wonderful memories. —**Klaus Gupto**

RAC charts Glenn's path to IT future

Continued from page 9

Division and Joan Oravec, retired chief, Computational Sciences Branch, were among the first to begin planning for the new mainframes. Within 6 months, 30 employees were relieved of current assignments and retrained as systems programmers to "talk to and feed the computers." Ford currently serves as chief, Computer Services Division.

Michael Heryak, senior network engineer, Enterprise Environments Branch, joined the RAC staff in June 1983, as a Cleveland State University electrical engineering co-op. He recalled the challenge of servicing the Lewis Information Network (LINK), a cable TV system, which was state-of-the-art for video and data communications back in the 1980s. Now, the LINK is used only for the Center's closed-circuit TV, and all data travels over high-speed fiber optic cables across Glenn and to other Centers.

"I've witnessed the Center's communications systems evolve from 'turtle speed' to an upcoming gigabit connection to Ohio's Third Frontier

Many retirees who had served Glenn in the RAC building returned to participate in the 25th anniversary celebration.



Photo by Laurie Yost

Network (TFN), the latest stride towards the future," Heryak said. "The TFN will connect research institutions, universities, schools, and communities throughout the state."

The RAC facility has kept pace in this amazing IT evolution under several different organizations—Computer Services Division (CSD), Information Services Division, and the current Office of the Chief Information Officer.

During the anniversary celebration, William Crell shared highlights of his NASA career, which began in 1957 as a math aid using nothing but a ruler and calculator, until his retirement from CSD in 1995.

"I used to guide the group tours that came to the RAC. It was always a pleasure to be able to escort and impress them with the leading edge and unique technologies that our facility offered," said Crell, who now serves as a Visitor Center volunteer and member of the Speakers' Bureau. "It's quite rewarding to know that we're leaving a lasting memory." ♦

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